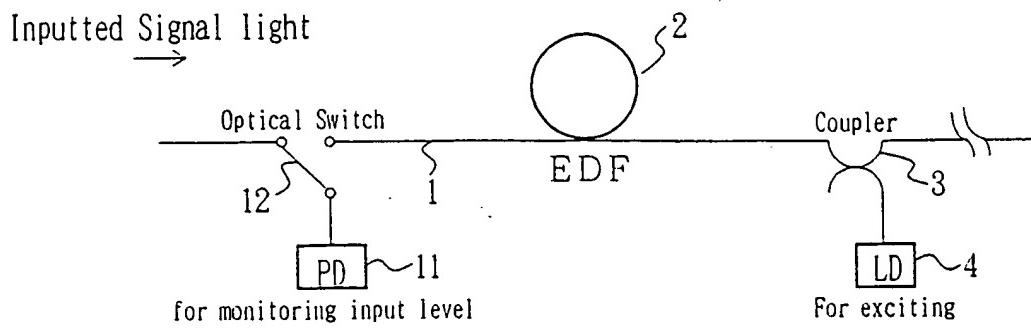
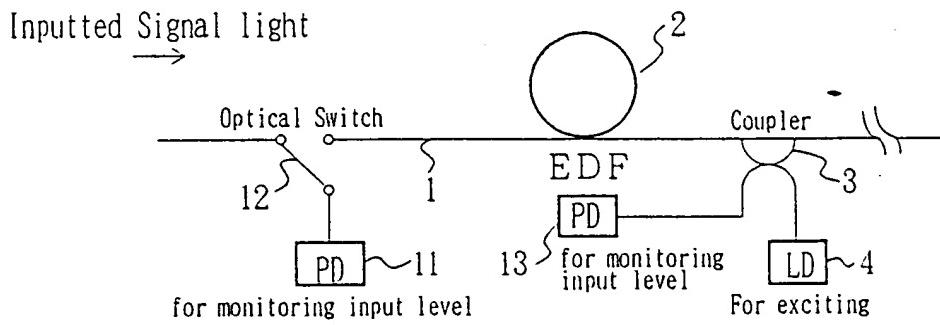


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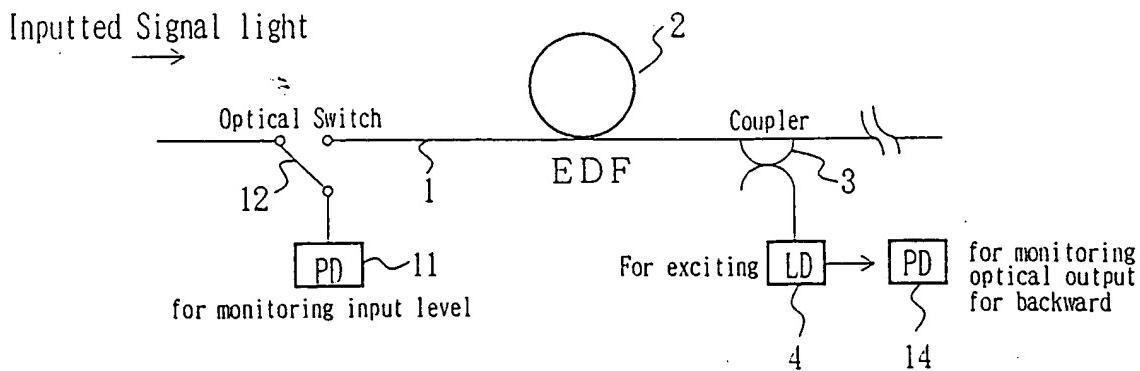
F I G. 1 A



F I G. 1 B

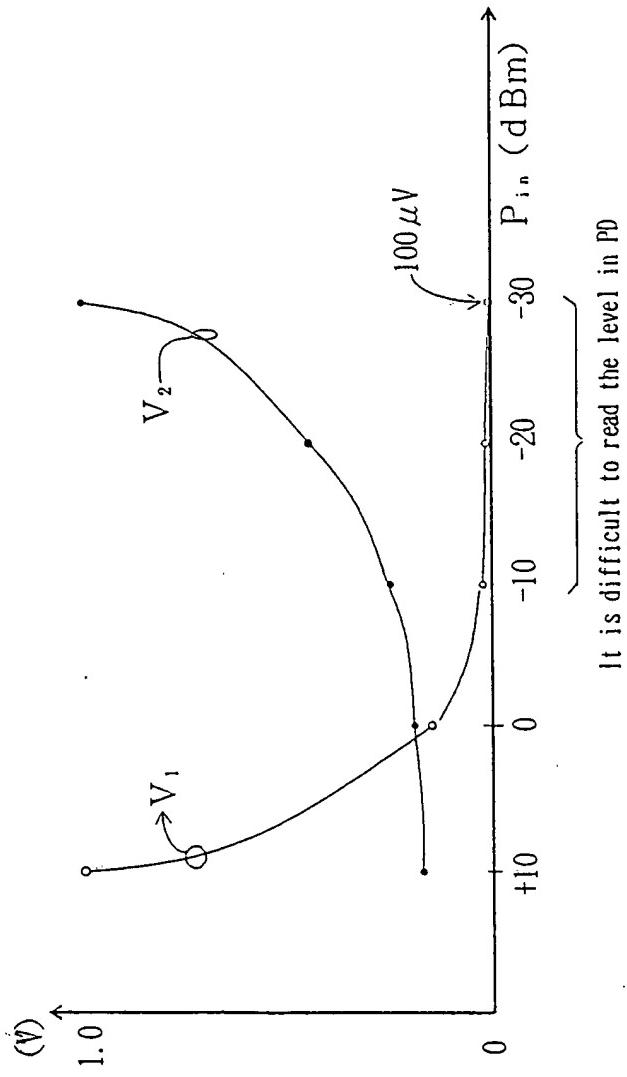


F I G. 1 C



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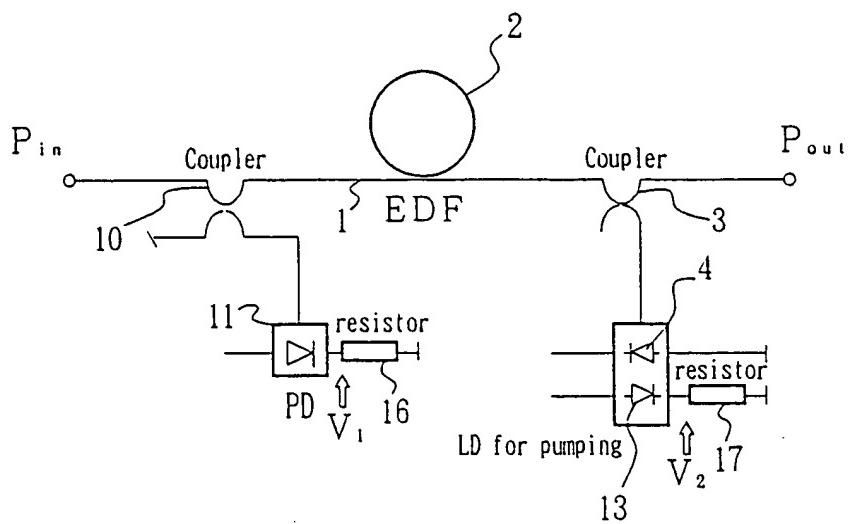
FIG. 2



It is difficult to read the level in dB

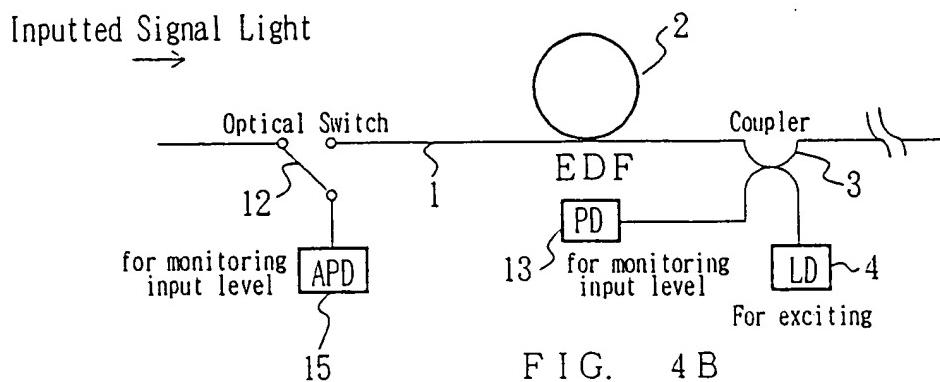
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F I G. 3

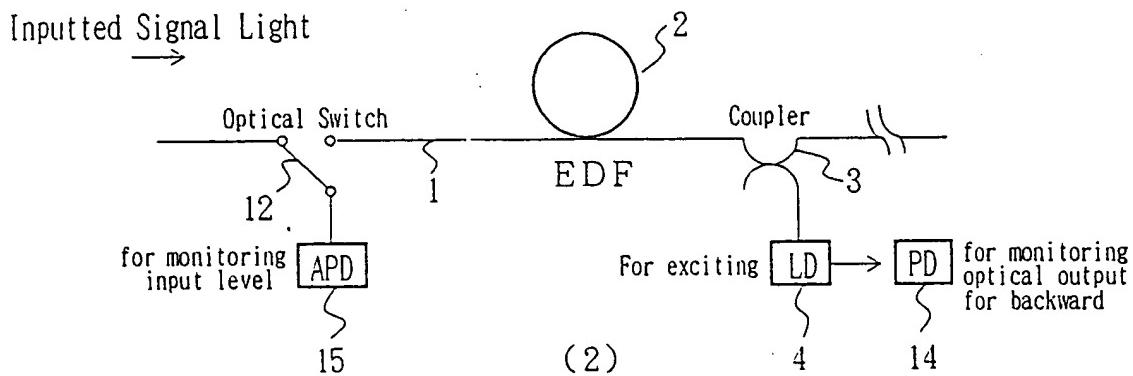


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F I G. 4 A

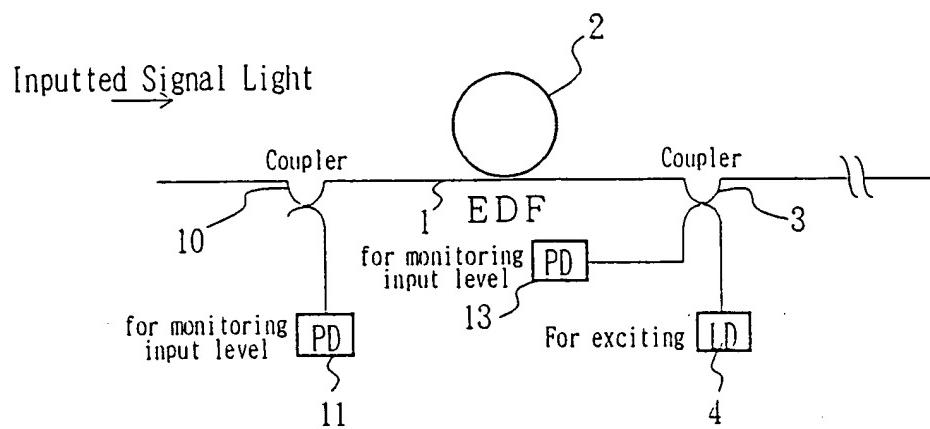


F I G. 4 B

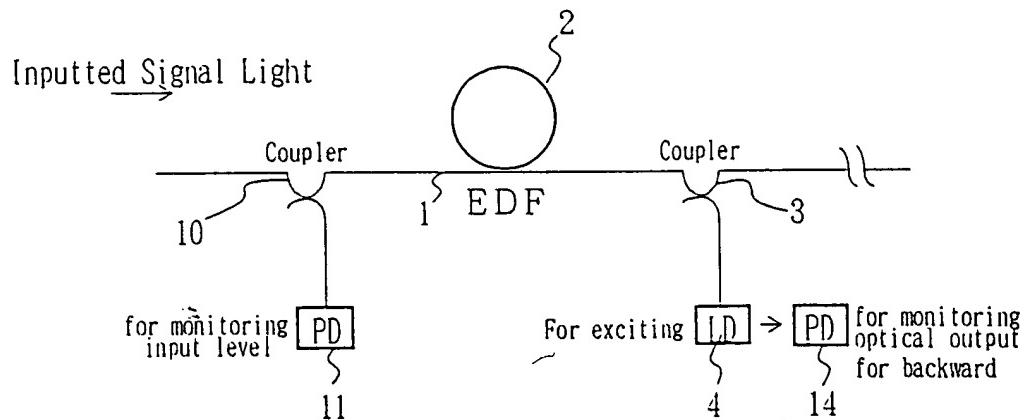


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F I G. 5 A

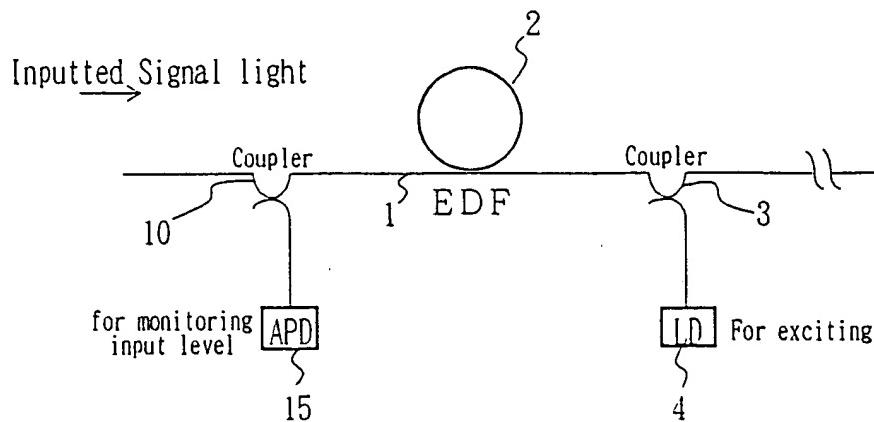


F I G. 5 B

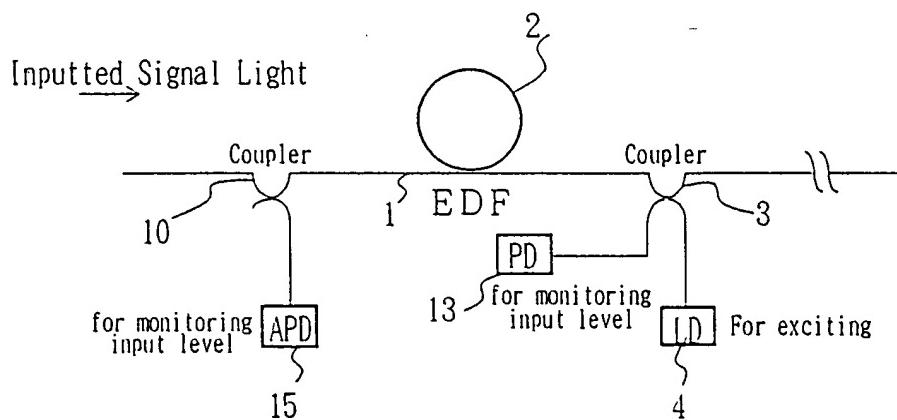


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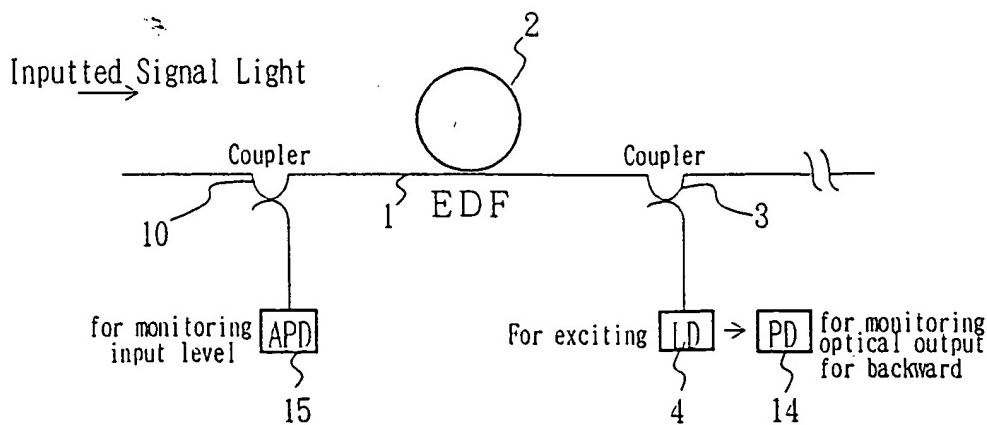
F I G. 6 A



F I G. 6 B

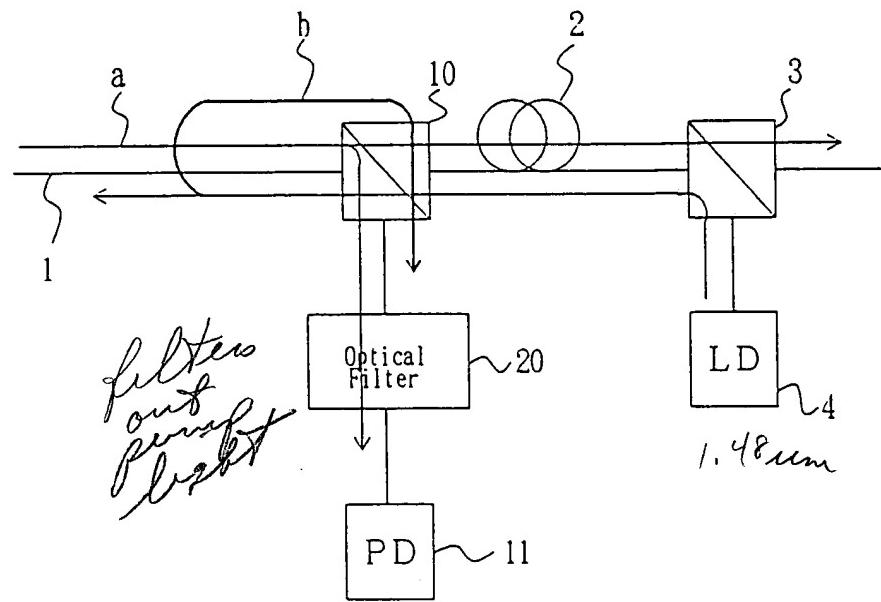


F I G. 6 C



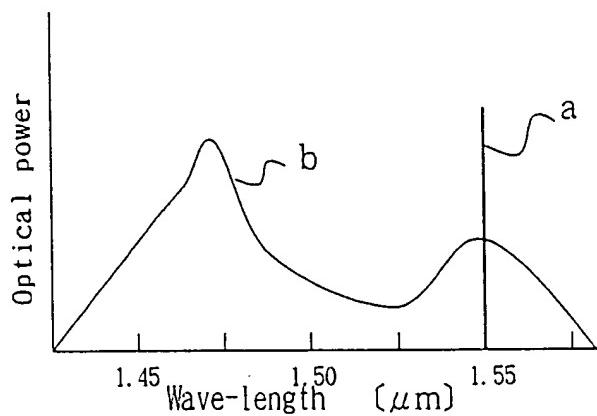
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F I G. 7

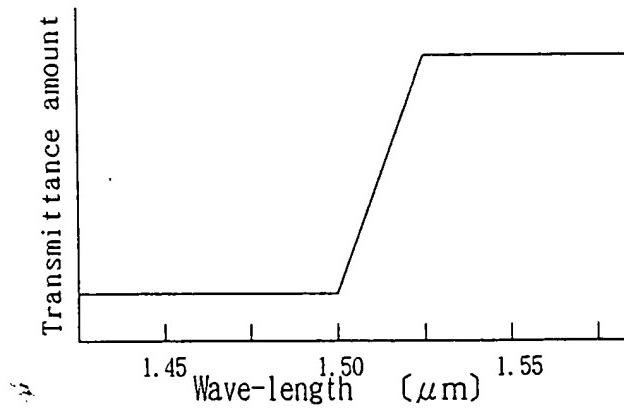


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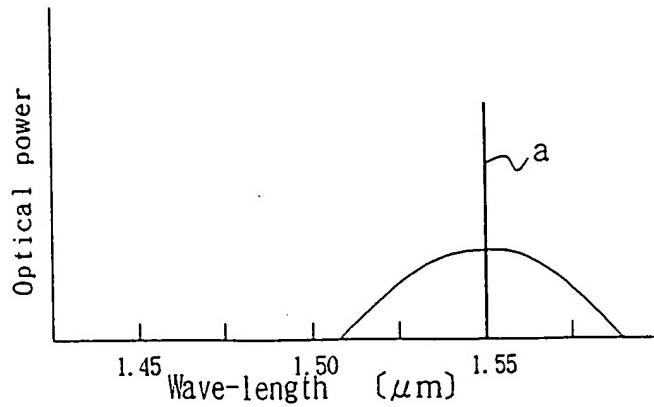
F I G. 8



F I G. 9

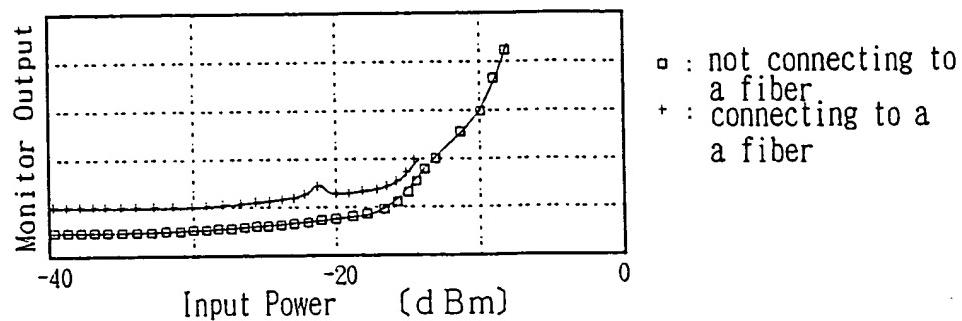


F I G. 10

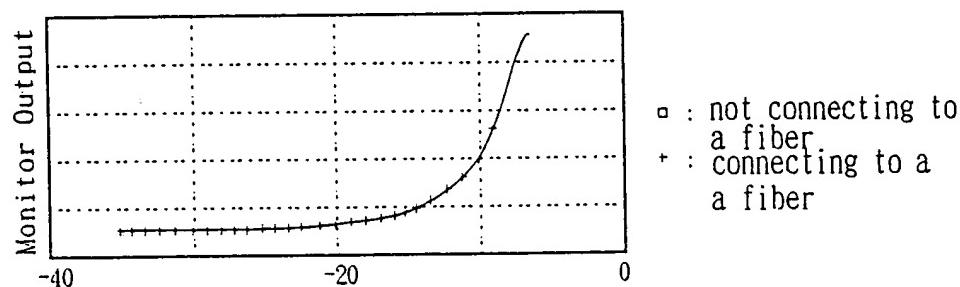


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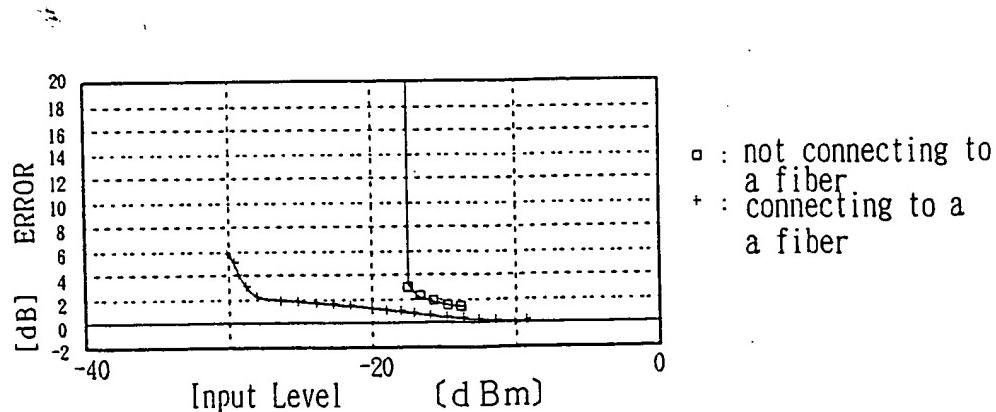
F I G. 11



F I G. 12

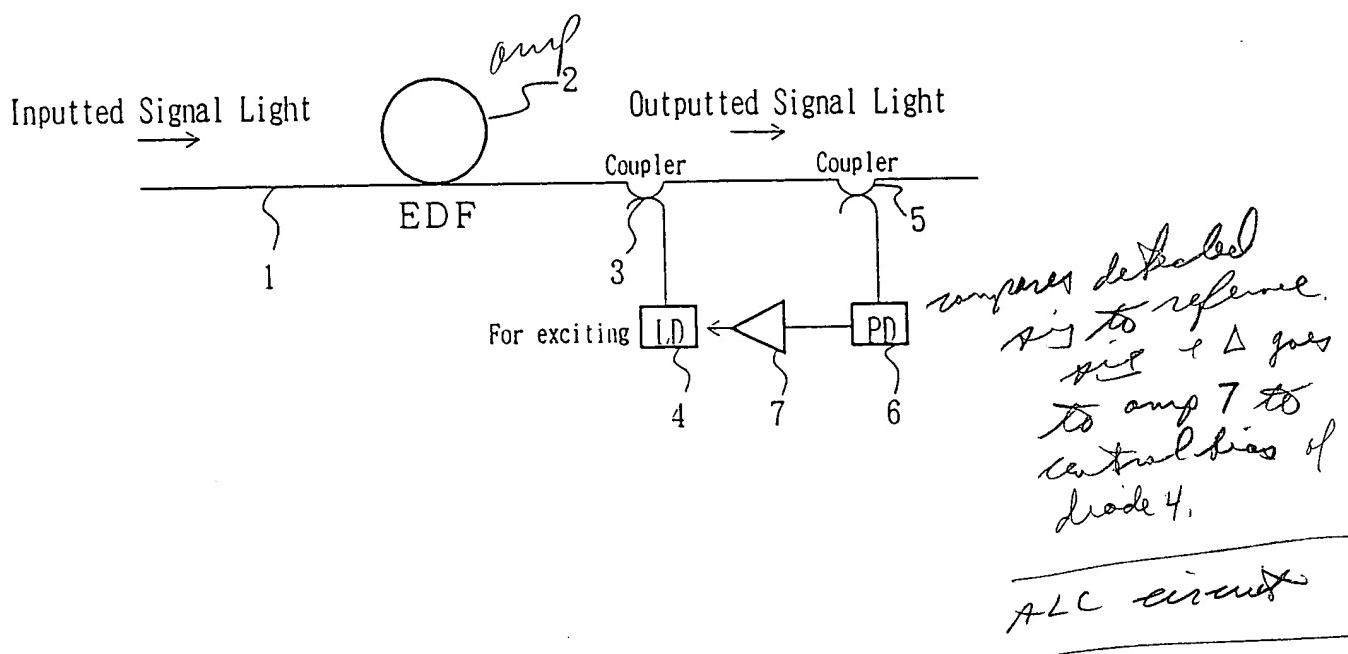


F I G. 13



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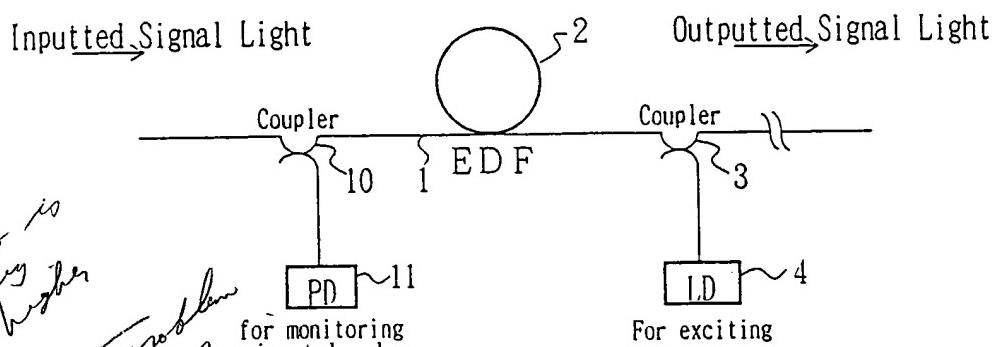
FIG. 14



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FIG. 15

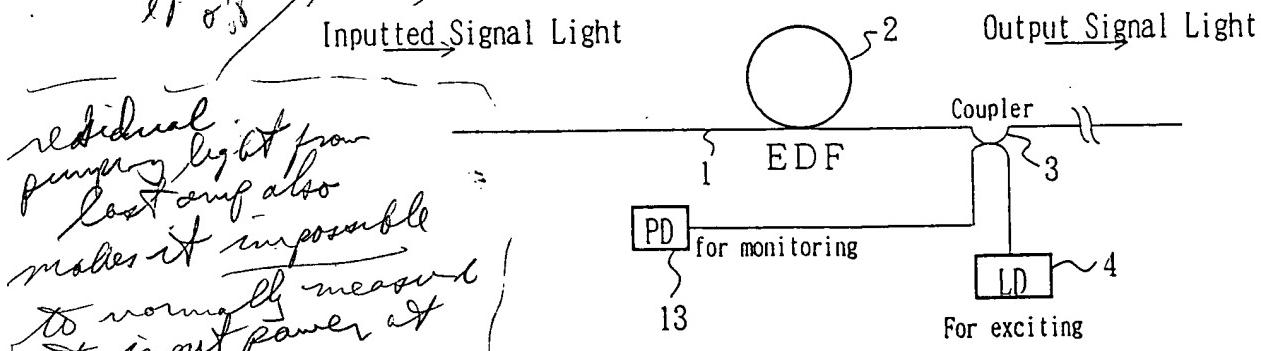
PRIOR ART



*Power is low if  
loss ratio is  
too high very  
low has higher  
loss which causes problem  
to excite  
light from  
diodes to  
photodiodes  
and important power.*

FIG. 16

PRIOR ART



*residual  
pumping light from  
last amp also  
makes it impossible  
to normally measure  
the input power at  
the next amp*

*for high  
original  
it has  
prob*

ALC

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FIG. 17

